

BigTwin SuperServer SYS-220BT-HNC9R

2U BigTwin with 6 2.5" NVMe/SAS/SATA drives per node and HW RAID



More details here

Key Applications

Mission Critical HPC, Virtualized Big Data Analytics, High-Density Storage RAID Array,

Key Features

- Four **hot-pluggable** systems (nodes) in a 2U form factor. Each node supports the following;;
- Socket P+ (LGA 4189) support 3rd Gen Intel® Xeon® Scalable processors;
- Intel® C621A;
- 20 DIMM Slots (16 DIMM Slots + 4 Intel® Optane™ Persistent Memory Slots);
- 1 PCIe 4.0 x16 (LP) slot; Tool-less support
Optional HW RAID Boot Controller via AOC-SMG3-2M2-B (NVMe Only)
Internal PCIe 3.0 for 2 x4 M.2 NVMe/SATA support onboard;
- Network connectivity via AIOM (OCP 3.0 compliant);
- 6 Hot-swap 2.5" drive bays; 6 PCIe 4.0 NVMe/SAS/SATA 2.5" drives;
- 4 cooling fans per 2U enclosure, 16.5K RPM; Shared Cooling Design;
- 2600W Redundant Power Supplies Titanium Level (96%+); Shared Power Design;
- Built-in SAS3 Support via Broadcom SAS3908;



Form Factor

2U Rackmount
Enclosure: 449 x 88 x 730mm (17.68" x 3.47" x 28.75")
Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")

Processor

Dual Socket P+ (LGA-4189)
3rd Gen Intel® Xeon® Scalable processors
Up to 36C/72T; Up to 54MB Cache per CPU

System Memory

Slot Count: 16 DIMM slots
Max Memory (2DPC): Up to 4TB 3200MT/s ECC DDR4 RDIMM
Supports Intel® Optane™ persistent memory 200 series

Drive Bays Configuration

Default: Total 6 bays
• 6 front hot-swap 2.5" PCIe 4.0 NVMe/SAS/SATA drive bays
M.2: 2 M.2 PCIe 3.0 x4 NVMe/SATA slots (M-key 2280(default); VROC required for RAID)

Expansion Slots

Default
• 1 PCIe 4.0 x16 LP slot

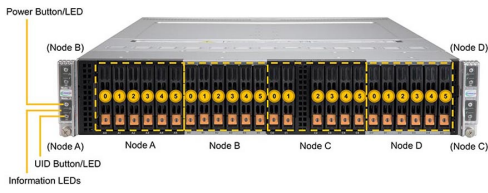
On-Board Devices

SAS: SAS (12Gbps) via Broadcom® 3908; RAID 0/1/5/6/10/50 support
Chipset: Intel® C621A
Network Connectivity: Via AIOM

Input / Output

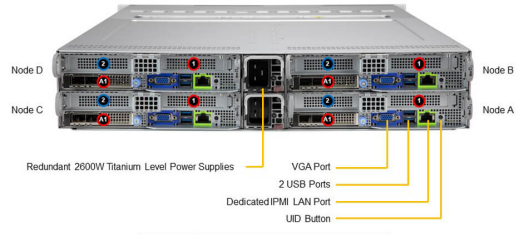
LAN: 1 RJ45 1 GbE Dedicated BMC LAN port
USB: 2 USB 3.0 ports(rear)
Video: 1 VGA port

(Front View – System)



| Drive Bay (Node A-D) | Description |
|----------------------|---|
| 0-11 | 6x 2.5" Hot-Swap NVMe(CPU2)/SAS/SATA Drive Bays |

(Rear View – System)



| Slot (Node A-D) | Description |
|-----------------|--------------------------------|
| 1 | RAID Controller Card |
| 2 | PCI-E 4.0 x16 Low Profile Slot |
| A1 | AIOM Slot PCI-E 4.0 x16 |

| | |
|-----------------------|--|
| System Cooling | Fans: 4x 16.5K RPM Heavy Duty 8cm Fan(s) Air Shroud: 4 Air Shrouds |
| Power Supply | 2x 2600W Redundant (1 + 1) Titanium Level (96%) power supplies |
| System BIOS | BIOS Type: AMI 32MB Flash ROM |
| Management | SuperCloud Composer®; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New! |
| PC Health Monitoring | FAN: Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors Temperature: Monitoring for CPU and chassis environment CPU: Monitors for CPU Cores, Chipset Voltages, Memory. 7+1 Phase-switching voltage regulator |
| Dimensions and Weight | Weight: Gross Weight: 96.6 lbs (43.8 kg) Net Weight: 66.1 lbs (30 kg) Available Color: Black front & silver body |
| Operating Environment | RoHS Compliant Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -40°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 90% (Non-Condensing) Non-operating Relative Humidity: 5% to 95% (Non-Condensing) |
| Motherboard | Super X12DPT-B6 |
| Chassis | CSE-217BQ-000NP |